

# Information Resource Management Information Systems Management

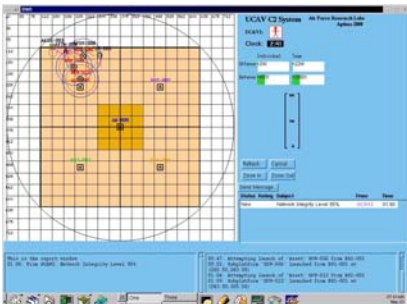
## Research Areas



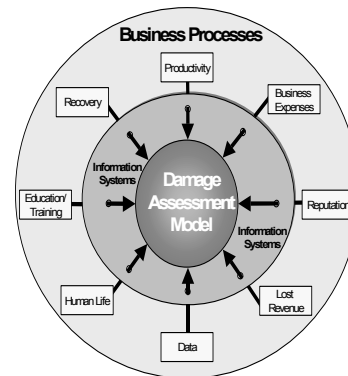
- Roles and responsibilities of the Chief Information Officer (CIO)
- Information Operations
- Knowledge Management
- Information System Trust
- Long-term access to digital information

## Recent Successes

A major area of research success for the IRM/ISM programs is information operations. Under a grant from the Air Force Office of Scientific Research, IRM faculty and students tackled issues of information systems trust and the synthesis of human-based and computer-based information intrusion detection systems.



Another area of success was the development of an information incident damage assessment model designed to help information owners investigate system intrusions and their effect on the



information stored in the systems.

Based on this and other work, members of the IRM/ISM program were invited to team with researchers at the University of Arizona and Florida State University to conduct a funded study on deception detection in information systems.

Also, a recent research success addressed the problem of maintaining long-term access to digital documents and provides a methodology for overcoming access difficulties due to technological obsolescence. This research conceptualized the digital Rosetta Stone.



- The award of Achievement Medals to IRM/ISM students for their contribution to developing a model of information needs and capabilities for the Air Force Research Laboratories.

### *Faculty*



Other noteworthy successes include:

- A framework for selection of Knowledge Management projects developed as a student thesis has been accepted by AF-CIO/BIM as an Air Force standard.
- A student thesis on cognition-based intrusion detection systems is forthcoming as an article in Signal Magazine.
- Research and/or consulting efforts directly with other DoD agencies supplement classroom work in an applied setting. The following are some examples of research and consulting that involve students directly in learning about using information that supports the global information grid and the Air Force's use of information as a strategic resource.
- The architecture for the World Wide Warehouse, a system for enabling and managing the buying and selling of surplus military equipment among U.S. foreign military sales (FMS) customers was first developed as a master's thesis by a student in the IRM program. This system has been lauded by SAF/AQ as one of its outstanding projects of recent years.

#### **Maj David Biros**

Assistant Professor of Information Resource Management

PhD, Information and Management Sciences, Florida State University

Tel: (937) 255-3636 x4826 (DSN 785-3636)

Email: [David.Biros@afit.edu](mailto:David.Biros@afit.edu)

#### **Research Interests:**

- Information operations
- Information system trust
- Deception and deception detection in information technologies
- Biases in communication



**Dr Alan R. Heminger**

Associate Professor of Information Resource Management

PhD, Management Information Systems, University of Arizona

Tel: (937) 255-3636 x4797 (DSN 785-3636)

Email: [Alan.Heminger@afit.edu](mailto:Alan.Heminger@afit.edu)

**Research Interests:**

- Development and implications of the role of the Chief Information Officer
- Long-term access to digital information
- Information ownership versus stewardship in organizations
- Knowledge Management



**Maj Mark Ward**

Assistant Professor of Management and Organizational Behavior

PhD, Organizational Studies  
Southern Illinois University at Carbondale

Tel: (937) 255-3636 x4742 (DSN 785-3636)

Email: [Mark.Ward@afit.edu](mailto:Mark.Ward@afit.edu)

**Research Interests:**

- Organizational design and structure
- Organizational culture and its influence on IT implementation